

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,247,185

APPLICATION NO.: 10/710,969

ISSUE DATE : July 24, 2007

INVENTOR(S) : Edward Jobson; Anna Holmgren Hagg

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(30) Foreign Application Priority Data

March 23, 2007 (SE) 0200453-9

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(71) Sökande Volvo Technology Corp, Göteborg SE
Applicant (s) Ford Global Technologies Inc, Dearborn MI US

(21) Patentansökningsnummer 0200453-9
Patent application number

(86) Ingivningsdatum 2002-02-15
Date of filing

Stockholm, 2006-11-22

För Patent- och registreringsverket
For the Patent- and Registration Office

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PTO/SB/21 (09-06)
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/710,969
	Filing Date	08-15-2004
	First Named Inventor	JOBSON et al.
	Art Unit	1724
	Examiner Name	GREENE, JASON M.
Total Number of Pages in This Submission	Attorney Docket Number	6730.058.PCUS00

ENCLOSURES (Check all that apply)		
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(71) Sökande Volvo Technology Corp, Göteborg SE
Applicant (s) Ford Global Technologies Inc, Dearborn MI US

(21) Patentansökningsnummer 0200452-1
Patent application number

(86) Ingivningsdatum 2002-02-15
Date of filing

Stockholm, 2004-08-25

För Patent- och registreringsverket
For the Patent- and Registration Office


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Fee 170:-

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US007247185B2

(12) **United States Patent**
Jobson et al.

(10) **Patent No.:** **US 7,247,185 B2**
(45) **Date of Patent:** **Jul. 24, 2007**

(54) **DEVICE FOR TREATMENT OF A GAS FLOW**

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Anna Holmgren Hägg, Torslanda (SE)

(73) Assignees: **Volvo Technology Corporation**,
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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/710,969**

(22) Filed: **Aug. 15, 2004**

(65) **Prior Publication Data**

US 2005/0138907 A1 Jun. 30, 2005

Related U.S. Application Data

(63) Continuation of application No. PCT/SE03/00223,
filed on Feb. 11, 2003, now abandoned.

(51) **Int. Cl.**
B01D 46/00 (2006.01)
F01N 3/022 (2006.01)
F01N 3/10 (2006.01)

(52) **U.S. Cl.** **55/523**; 55/282.3; 55/385.3;
55/410; 55/418; 55/482; 55/524; 55/DIG. 10;
55/DIG. 30; 60/274; 60/282; 60/297; 60/299;
60/300; 60/303; 60/311; 96/108; 96/154;
96/384; 96/386; 423/212; 423/213.2; 422/170;
422/180; 422/182

(58) **Field of Classification Search** 55/282.2,
55/282.3, 385.3, 410, 418, 523, 524, DIG. 10,
55/DIG. 30, 482; 96/108, 154, 384, 385,
96/386; 60/274, 282, 297, 299, 300, 303,
60/311; 423/210, 212, 213.2, 213.5, 213.7;
428/116, 117, 118; 502/439; 422/169, 170,
422/171, 180, 182, 183

See application file for complete search history.

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(57) **ABSTRACT**

Device for treatment of a gas flow having at least one body (3) that is adapted to cause a conversion in the composition of the gas. The device is characterized in that the body (3) has a modular construction comprising a plurality of sections (26, 26', 27, 27', 36) with different internal structures that allow gas to flow through the section, and that the sections (26, 26', 27, 27', 36) are arranged so that at least a portion of the gas flows through at least two sections with different internal structures during operation of the device.

33 Claims, 7 Drawing Sheets

